



# SIMSON MSR DC Advanced

## SILYL MODIFIED POLYMER

### YOUR SMART ADVANTAGES

- Sandable after curing
- High temperature resistance
- Good UV & weather resistance.

The Simson Marine Special Range is a range of products especially developed for nautical applications.

### DESCRIPTION

Simson MSR Deck Caulk Advanced is a 1-component, permanently elastic, fast curing sealant, based on Silyl Modified Polymer (SMP).

### APPLICATION

Watertight sealing of seams in teak decks and other decking materials.

### FEATURES

- Solvent and isocyanate free.
- Very good UV-resistance and ageing properties; long time resistance against fresh and salt water.
- Permanently elastic in a temperature range of -40°C to +100°C.
- Neutral, odorless and fast curing.
- Can be sanded after curing.
- High chemical resistance

### ADHESION

For good adhesion on teak wood a clean, dry and grease free substrate is necessary. After cleaning the wood with Simson Cleaner E the teak has to be pretreated with Simson Prep P. After the drying time of Prep P (minimum 1 hour, maximum 6 hours), MSR Deck Caulk Advanced can be applied. For adhesion on other materials than teakwood, please consult Bostik. For optimum use of the high elasticity of MSR Deck Caulk Advanced a minimum joint dimension related to the width of a deck part is recommended.

### TECHNICAL DATA

| CHARACTERISTIC                                     |        | VALUE                        |
|--|--------|------------------------------|
| <b>Basic material</b>                              |        | Silyl Modified Polymer (SMP) |
| <b>Curing method</b>                               |        | Moisture                     |
| <b>Specific gravity</b>                            | [g/ml] | ca. 1.4                      |
| <b>Skin forming time</b><br>20°C/50% R.H.          | [min]  | ca. 25                       |
| <b>Curing speed after 24 hrs</b><br>20°C/50% R.H.  | [mm]   | ca. 2.5                      |
| <b>Shore A hardness</b><br>DIN 53505               |        | ca. 48                       |
| Volume change<br>DIN 52451                         | [%]    | < 3                          |
| <b>Tensile stress (100%)</b><br>DIN 53504/ISO 37   | [MPa]  | ca. 1.8                      |
| <b>Tensile stress at break</b><br>DIN 53504/ISO 37 | [MPa]  | ca. 3.0                      |
| <b>Elongation at break</b><br>DIN 53504/ISO 37     | [%]    | ca. 200                      |
| <b>Shear stress **</b><br>DIN 53283/ASTM D1002     | [MPa]  | Ca. 2.1                      |
| <b>Tear propagation ***</b><br>DIN 53515/ISO 34    | [N/mm] | ca. 11                       |
| <b>Solvent percentage</b>                          | [%]    | 0                            |
| <b>Isocyanate percentage</b>                       | [%]    | 0                            |
| <b>Temperature resistance</b>                      | [°C]   | - 40 till + 100              |
| <b>Application temperature</b>                     | [°C]   | + 5 till + 35                |
| <b>UV-and weather resistance</b>                   |        | Excellent                    |
| <b>Colours (standard)</b>                          |        | Black                        |
| <b>Packaging</b>                                   |        | 600 ml sausages              |

\* Max. load which can be applied per sqm uncured adhesive without sagging.

\*\* Alu-Alu; adh. thickness 2 mm, test speed 50 mm/min.

\*\*\* Type C, test speed 500 mm/min.

## METHOD OF USE

For specific application instructions please consult the separate instruction brochure "Application manual for bonding and caulking of teak decks".

MSR Deck Caulk Advanced can be extruded easily with an air pressure mastic gun. MSR Deck Caulk Advanced has to be tooled within 25 minutes (at 20°C/50%R.H.). Removing uncured residues of MSR Deck Caulk Advanced or cleaning tools can be done with a clean, colorless cloth, wetted with Simson Liquid 1 or Cleaner E. It is recommended to make a trial first to check possible harmful effects of these cleaners on the substrate.

Cleaning of teak decks: See separate instruction brochure "Application manual for bonding and caulking of teak decks". In order to keep the teak decks in an optimum shape we recommend cleaning the deck with (salt) water or diluted pH neutral green soap and a soft brush (see for more information Bostik manual for teak deck bonding). The brush must be used in parallel direction of the teak strokes. After the cleaning we recommend to flush the deck with fresh or salt water.

We strictly advise against the use of detergents, cleaners and other chemicals as they might effect the caulk in the deck. The use of high pressure cleaning equipment might damage your deck in a severe way. For other recommendations we advise to contact your local dealer or Bostik.

## STORAGE STABILITY

MSR Deck Caulk Advanced can be stored for 12 months in an original, unopened container in a dry place at temperatures between + 5°C and + 30°C (cartridges 18 months).

## FURTHER INFORMATION

The following publications are available on request:

- Material Safety Data Sheets (MSDS)

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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